IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MARYLAND

NORTHERN DIVISION

CIVIL ACTION NO.: WMN-02-CV-2068

WILLIAM LOCKWOOD,
Plaintiff,

v.

v.

PACIFIC CYCLE, LLC, AND TOYS "R" US-DELAWARE, INC.,

Third-Party Plaintiffs,)

SR SUNTOUR, INC., AND SR SUNTOUR, USA,

Third-Party Defendants.)

DEPOSITION OF: JAMES M. GREEN

On Monday, April, 14, 2003, commencing at 1:05 p.m., the deposition of JAMES M. GREEN was taken on behalf of the Defendant at the offices of Asheville Reporting Service, 66 N. Market Street, Asheville,, North Carolina, and was attended by

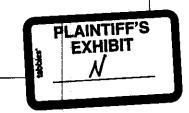
APPEARANCES:

Counsel as follows:

MICHAEL P. SMITH, ESQ.
Salsbury, Clements, Bekman,
Marder & Adkins, LLC
300 W. Pratt Street, Suite 450
Baltimore, Maryland 21201
on behalf of the Plaintiff,

EDWARD J. LOPATA, ESQ.
Tydings & Rosenberg, LLP
100 East Pratt Street
Baltimore, Maryland 21202
on behalf of the Defendants.

REPORTED BY: Rebecca A. Geldres, CVR
ASHEVILLE REPORTING SERVICE



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1 (Document E1143) 2	PURSUANT TO NOTICE and/or Agreement to Take Depositions, the within Deposition was taken by me, Rebecca A. Geldres, a Notary Public, as required in Rules 26 and 30 of the North Carolina Rules of Civil Procedure. STIPULATIONS: IT WAS STIPULATED AND AGREED by and between Counsel for the Plaintiff and Counsel for the Defendant that each question in this Deposition is deemed to be followed by an objection and that each answer or portion thereof is deemed to be followed by a motion to strike; and that the objections and motions to strike may be ruled upon by the presiding Judge at any hearing or trial of this cause, provided, however, that any objections as to the form of the question must be made at the time the question is propounded or else the same is waived. SIGNATURE: The Deponent did agree that both the reading over and signing of the transcript are hereby reserved. JAMES M. GREEN, being duly sworn to tell the truth, the whole truth, and nothing but the truth of his own knowledge concerning the within matter, testified as follows:
1 DIRECT EXAMINATION BY MR. LOPATA: 2 Q Mr. Green, my name is Ed Lopata and I 3 represent Suntour, Inc., or USA, also known as 4 USUL Corporation, in a lawsuit filed by Mr. 5 Lockwood versus Pacific Cycle, Toys "R" Us, 6 and they've brought us in as a third-party 7 defendant. And you've been designated as an 8 expert and I've got your expert report. We're 9 here to take your deposition today. Just a 10 little ground rules, any question I ask, if 11 you don't understand it, stop me. I'll 12 rephrase the question. And then, as you know, 13 if you answer the question, I'm going to 14 assume that you understood the question. Any 15 questions you can answer yes or no, please say 16 yes or no, rather than nod or grown. Okay? 17 A Yes. 18 Q And you realize that you've just taken the 19 same oath you take before a judge and a jury, 16 we were in trial? 21 A Yes. 22 Q State your name, sir? 23 A James Marley Green. 24 Q Mr. Green, I've been advised by counsel that 25 you expect to get paid before we start the	for deposition? A Two-twenty-five. Q If, in fact, we don't spend all the money, 1 assume that you'll refund me some of the money? A Yes. Q Also, I want to mark the deposition notice. BY THE COURT REPORTER: Do you want that to be one? BY MR. LOPATA:

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* * *	11
the past on other issues. I don't have access to that and I don't keep a file of that, for No. 20. That's all that's on there. DIRECT EXAMINATION RESUMED BY MR. LOPATA: Q With regard to Exhibit 5, which is your billing statement A Yes. Q how do your time? A As in what we use time slips. Q And then you use the time slips to type up the bill that I'm looking at? A Yes. That's from the time slips. Q At the time you received the bicycle from the client you have a note on 06-21 you received the bicycle from the client. What condition was the bicycle in? Was it all taken apart or A Well, it came shipped in a bike box in the condition that's noted in the photos. No nothing has been was done to it. And we downloaded all the photographs that were taken at the time that I looked at the bicycle, and you can see the condition it was in. And that was the condition when it was sent back. Are you going to mark those or I might add that	I I separated out for clarity in handwritten figures that are in the engineering report, just because they're easier to see. BY MR. LOPATA: We'll mark these. These seven photographs are Exhibit No. 6. (DEFENDANT'S DEPOSITION EXHIBIT NO. 6 MARKED) BIRECT EXAMINATION RESUMED BY MR. LOPATA: Q With regard to Exhibit No. 5, your bill, how many hours did it take to formulate your opinions that are set forth in the August 19, 2002, report? A Okay. Eighteen point five hours was spent on the project, prior to writing the engineering report. And your question was how many hours of those 18.5 did it take to formulate the opinion, and I don't know if I can answer that. Certainly a certain number of those hours were used formulating my opinion. Q In looking at Deposition Exhibit No. 2, which is your August 19, 2002, report, it appears to me that your opinion in this case really goes to the fact that you believe, from a design standpoint, that there should have been welding in place to actually connect the steer
1 tube to the fork crown? 2 A That or some other kind of redundancy. There 3 are other ways of keeping the two of these 4 together. You could have used a form of 5 glue/epoxy, which you see often, or you could 6 have braced them together. But certainly some 7 form of redundancy needed to be there. 8 Q And that's basically the sole whole opinion	1 not known it was there. 2 Q Well, my question is whether that was an issue, as opposed to 4 A Okay, whether it was an issue. Let me let me answer your question by saying this is the first mechanical bonded front fork that I've seen separate. 8 Q Have you ever read about any such situations?
9 set forth in your report; correct? 10 BY MR. SMITH: 11 Objection. 12 BY THE DEPONENT:	9 A No. 10 Q With regard to the separation in this case and 11 your opinions, do you have any idea when the 12 bond was disconnected? 13 A You're referring to the mechanical bond?

Well, it's not the sole opinion.

14 DIRECT EXAMINATION RESUMED BY MR. LOPATA:

15 Q I mean, I read it ---

16 A It's the primary opinion certainly. It's the

-- I would agree with you it's the primary 17

18

23

Q With regard to the SR Duo Track 7006, have you 19

ever been involved in any other case dealing 20

with that component part? 21

22 A Well, I mean, that I can't answer because I

don't separate out the component part, per se,

in a lot of cases I get. I mean, I may have 24

had that in the office or the laboratory and 25

You're referring to the mechanical bond? 13 A

14 Q Yes.

I don't think anybody can tell you 15

specifically -- can give a specific time line 16

on that. It could have happened at the 17

factory. It could have happened anytime up to 18

and including the point that it released. 19

There's no way you can look at the signature 20

on the two parts and get a time line on it 21

Q So it didn't necessarily disconnect at the

22

time of the accident? 23

A Let's make sure we're talking about the same 24

thing. When you say disconnect, I'm -- I'm 25

14	15
assuming that the bond the mechanical bond has lost its integrity. O Correct. A It could still be in place. In other words, the steer tube could still be all the way down into the fork, but it no longer has integrity. So you could be in that situation for an extended period of time, and there's no way of telling how long that would be. With regard to the strength of the bond, of the mechanical bond, do you know what the strength was of that mechanical bond? A Do you mean to say in your question how much force would it take to release the the front fork from the steer tube? Yes. A I know what it should be. I don't know what this particular one was because it's after the fact. There's no way of testing it. But from my previous testing I can tell you that it would take at least two or three thousand pounds to get release, if the bond was proper. That is to say, if it had an epoxy or welding, or something. You would get failure of the front fork before you get release.	1 Q This bicycle was apparently sold in May of 1997; is that correct? 3 A Correct. 4 Q Were there any standards in the industry 5 regarding what the strength of that bond 6 A There are no there are no published 7 standards in the industry on the strength of 8 the bond at that time, or now, for that 9 matter. What you have is the CPSC standards 10 and the ongoing work through the ASTM fork 11 committee. 12 Q As far as the CPSC standards, talking about 13 the Consumer Product Safety Commission, what 14 standards were you referring to? I've got 15 Deposition Exhibit No. 4, which I understand 16 are the standards. 17 A Go to four and then go to the drop test. Bear 18 with me while I find it, please. Page 19 let's go to the reference number. It's 20 Reference 1512.13(1), fork test procedure. 21 Excuse me, let me see if counsel needs do 22 we all have copies of the regulations? 23 Q We have our copy. That's all right. 24 A I'm referring to Exhibit 4. It says, to 25 summarize it, there's a load applied to the
axle attachment in a direction perpendicular to the center line of the stem and against the direction of the rake, which is a deflection and loading test, not a bond or movement test. So it's as close as you're going to get, to to answer your question. Q In your opinion, is that applicable to this situation here? A Well, no. That's not the situation here. Your question to me was what written standards are out there, and I attempted to answer it by saying this is the best that's there, and it's not in any way, shape or form supposed to be a steer tube from the fork removal test, because it's not. And there's also, of course, the second part of that, which is the loading of 890 newtons. That's 200 pounds force in a direction against the direction of the rake, which is toward the rear of the bike basically. Q What is that test? A That really is a fork deflection test. But that wouldn't be applicable in this	1 question. 2 Q So as far as any industry standards or rules 3 or regulations, statutes, etcetera, are there 4 any as to what the strength of 5 bond should have been 6 A No. 7 Q in this bicycle in question? 8 A No, other than what I read. 9 closest you're going to get to 10 regulations and the rough draft ASTM 11 standards, for want of a better word, for the 12 Fork Committee, which your expert Dave 13 Mitchell is on, or I guess specific cycles. 14 Expert Dave Mitchell and I are both on that 15 committee. And there was a rough draft. 16 They're not in they're not promulgated into 17 final draft yet. 18 Q And so they're not applicable standards, as 19 far as this case is concerned? 20 A Well, they're applicable in that the industry 21 knows that they're there because the industry 22 sits on a committee. Representatives from th 23 industry sit on the committee. I believe your

question was industry standards.

Q Right. But those standards didn't govern the

24

25

25 A No. No. But that goes back to the original

situation either?

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18	19
manufacture of SR Duo Track 7006 in 1995 or 1996, when they were manufactured? Not at that time when this was manufactured. The only written well, there are two written standards. One is the CPSC standards and the other is the ISO standards. International Safety Organization standards are fork deflection standards also. They're not mechanical bond or front fork standards. Are there any standards in the industry or statutes, regulations, whatever, concerning how the fit occurs? Can it be thermal bond? Can it be like a mechanical press-fit bond? Does it have to be welded? Does it have to have epoxy or something in there? No. There's no standard there's no written standards in the industry on that. Are there any 19 A In 1995 or today, for that matter. Are there any statutes, rules or regulations, anything like this? A No. In your report, you indicate that this Duo Track 7006 was defective because it didn't have a weld to connect the steering tube into	the fork crown? A Yes. O And you said that was a manufacturing defect? A Correct. O What facts are you relying on to support your conclusion that this should have had a weld? A What facts am I relying on? O Yes. O Well, I'm not relying on facts as much as I am engineering standards, in that when you design anything, whether it's a front fork and a steer tube or a bridge, you should have you need to have redundancy built into the system so that you don't have failure. You can't rely on one one system or one design. You need to have you need to have redundancy built into the design to protect the public, regardless of what you're designing. O So it being your opinion in your letter here, when you indicate that there should have been a weld in place and you didn't see any, are you aware of any bicycle standards that would require a mechanical fit to be welded? A Oh, there are none, as I said earlier. I'm speaking as a as an engineer basically
agreeing, I think, with what Dave Mitchell's saying, the other engineer that's involved in this matter, that there should have been the fork shouldn't fail, but that that is not what you're asking me. What you're askin me is are there any standards there. Correct. And to answer your question, I'm saying that there are no standards there, but any professional engineer who does any design, whether it's this design or any other design, would have redundancy built into the system. And in that respect, that standard is being violated, which is a design standard that any design engineer can give you; not just me, bu any design engineer. So the simple fact that this Duo Track 7006 was designed without taking into consideration a weld, you're saying that fact alone makes it a design defect? A Well, I'm saying a weld or equivalent. You could use epoxy. You know, that is done in the industry. You could use you could braze it. Welding is, by far, better when you're putting aluminum and and metal	using some type of epoxy or gluing method, or by brazing it. Welding is certainly easier and certainly preferred. If you look at all the forks in the industry, that's what you'll see is you'll see a weld there. And but any one of those three methods. Q Going back on your knowledge, as far as bicycles are concerning to A Right. A Right. C are you aware of any other bicycle manufacturer in 1995, 1996 or 1997 who manufactured a bike with a mechanical press

as a result, if you get temperature variation

at all -- for example, if you go into a factory that's, say, 60 degrees and put --

1

- degrees F, and you put these two entities
- together mechanically. And then you take and go out into 100 degree weather, your aluminum
- is going to expand at a greater capacity than your steel, and you're -- you're going to have
- 9 a loosened system. Your fork's going to tend
- to want to come off of the -- of the steer tube.
- 12 Q Just because of change in temperature?
- 13 A Well, because of the expansion of the
 14 different metal. The two different metals
- expand a greater rate. That's why you need a sense of redundancy. I mean, excuse me,
- you're not -- you need redundancy, not a sense of redundancy.
- 19 Q So it wouldn't make any difference how tight
 20 the fit is or how strong the fit is, that
- sooner or later it's going to become separated?
- 23 A No, I didn't say that. I said sooner or later
- you're going to be at risk. Not every one of these eight million forks is going to fail.

1 But your probability is pretty high that

you're going to get failures with this design

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- without a sense of redundancy built in. And I
- don't care how strong the bond is under this design configuration where you've got the
- design configuration where you've got the striated edges pushing into the aluminum,
- causing grooves, and that is what's going to
 hold your system in. Sooner or later you're
- going to get failure in those eight million
- forks. Mr. Tanaka may not be aware of failure, but you're going to get them because
- of this design. You don't have any redundancy
- built in. It's a bad design.
- 14 Q Even though you recognize this, it's your opinion that this is a bad design, there
- aren't any rules or regulations saying you
- can't have two dissimilar metals mechanically fit?
- 19 A There are no rules or regulations in the standards for bicycles. That is true. But
- any engineer, any professional engineer is going to tell you this is a bad design and
- 23 more probably than not, it's the reason that
- this -- well, it's the reason -- it's not more
- probably than not. It's the reason this

40

- failure occurred here. It's just a bad design.
- 3 Q It's your opinion, again, it's more likely
- than not that because of the design of the SR
 Duo Track 7006, it's more likely than not that
- 6 there would be a separation on all these 5 bicycles?
- 8 A No, that's not what I'm saying. I said more likely than not that all eight million of
- these forks is at risk of failure. Will every
- fork fail? No. But they're all at risk of
- failure, and if you get conditions -- the
- right kind of conditions, you will get
- 14 failure.
- 15 Q When you say they're at risk, you're saying that there's a possibility that there will be
- a failure, there will be a separation?
 A I'm saying that every -- if every one of these
- eight million forks has a mechanical bond like we see here in this fork and nothing else has
- been done, I'm saying that every one of those
- eight million forks carries with it a very
- high risk of failure, under the right
 conditions. Will every eight -- one of the
- 25 eight million forks fail? Of course not. But

- 1 if you get the conditions right, you'll get
 - failure because you don't have a sense of redundancy built in. You've got two different
 - 4 metals being used in the mechanical bonding 5 process and you're going to get very good
 - 5 process and you're going to get very good 6 potential for failure. Not every one of these
 - forks is going to fail, but you're going to get failure.
 - 9 Q Can you quantify the risk when you say a very
 - 10 high risk of failure?11 A If you get a condition where you can get
 - enough expansion of that outer part of the bond, which is the part that is met by the
 - aluminum fork, you get enough expansion of
 - that so that the two entities are sliding around, that is, the fork and the fork -- and
 - the steer tube are sliding around and are
 - going to become loosened, then all it takes is for the rider to raise that -- raise that
 - front fork up and the fork crown can come off
 - of the steer tube. Does every rider that
 - rides a bike do that? Of course not. This
 - probably very rarely happens. Will every rider that raises the front fork up have the
 - front wheel fall off? Is that what Green is

11 (Pages 38 to 41)

42

saying? Of course I'm not saying that. What 1

- I'm saying is, if you get the conditions such 2
- that you get enough expansion of the aluminum
- fork and the rider raises the front fork up, 4
- then you very probably can get failure because 5
- the potential is there. There's no redundancy 6 7
- Q In this case dealing with Mr. Lockwood and his 8 bicycle, you don't know what caused the 9 10 failure?
- A Do I know the exact thing that caused it? No, 11 I don't. 12
- Q Could it have been abuse of the bicycle? 13
- 14 A No, I don't think so because our tests show clearly -- I have done a lot of testing on
- 15 front forks, a lot; not just for this case but 16
- prior to this case. Our testing has clearly 17
- shown that the rest of the bike will come 18
- completely apart before a front fork crown and 19 steer tube will, if it's properly assembled. 20
- Q When you say come completely apart ---21
- 22 A We're talking about ---
- Q --- you mean separated; not breaking or 23
- fracturing? 24
- 25 A No. No, I'm saying that the fork blades will

- fail; that the -- that the fork itself will 1 fail long before -- and the wheel will fail 2
 - long before the front fork and -- excuse me,
- 3 front fork and steer will fail, if it's 4
- properly designed and manufactured. I've got 5
- the testator right there that I can show you. 6
- I have hung up to 1,500 pounds from the front 7 fork dropouts and had the wheel fail. I've
- 8 had the fork blades fail, and the fork crown 9
- and steer tube have remained in place. 10
- Is that because they didn't have a mechanical 11 fit like we have in this case? They all have 12 built in redundancies like epoxy or welding? 13
- Yes. 14
- Q So every one of the fork crowns that you've 15 tested have all had a built in redundancy of 16 some kind? 17
- A Correct, the ones that I've tested in my 18 19 testing.
- Q How many of those have you tested? 20
- Probably several hundred; probably 300. 21
- O And these are all different bike 22 manufacturers? 23
- A Different manufacturers. The data's in there. 24
- 25 I'll be ---

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- Could you show it to me?
- 1 Yeah, sure. The testing apparatus is here, 2
- and -- I'm referring to Chapter 15, 3
- "Structural Integrity of Bike Frames Subjected 4 to Frontal Static Force." 5
- Q Is there any specific section dealing with the 6 fork crowns that the steering tubes went into? 7
- A Well, it deals with the whole frame. I mean, 8 I didn't -- I haven't taken out the fork -- I
- 9 haven't taken out the front fork and steer 10
- tube and tested it separately because it's a 11
- meaningless test because I tested it in the 12 frame. It tells you nothing if you take it 13
- separately because that's not what we're 14
- dealing with here. 15
- Q Well, wouldn't it tell you how much force 16 would be necessary to get the two to separate? 17
- A Well, it would if that's what you're totally 18 interested in studying. 19
- O I'm interested in that because I have this 20
- 21
- 22 A Well, but -- yeah, but you -- you didn't have a failure here where you had that happen.
- 23 This was in the bike frame when it happened. 24
- Q I understand that. 25

- A So to take the two of them out -- to take it
- out and to test it separately in the lab to 2 get your failure is not a meaningful test at 3
- all. It means nothing. For one thing, it 4
- doesn't take into effect the expansion of the 5 aluminum front fork as a function of
- 6 temperature at all when you do that, so it 7
- doesn't mean anything. You -- I'm sure if you 8
- took this subject front fork out and put it in 9 a lab and tried to break it apart, the 10
- mechanical bond would hold extremely well. It 11
- would be very hard to get it to separate. But 12 that's not what happens in the real world. In 13
- the real world, what happens is these -- you 14
- take that out and you have the -- you have the 15 aluminum front fork and you have the steer --
- 16 steer tube, and that's subjected to 17
- temperature variations and use variations. 18
- And that's when you have to be concerned about 19 your failure mode because you've got these two
- 20 different metals and it's in a bike frame. 21
- It's not separate. 22
- Q You're an engineer. You're not an 23 metallurgist?
- 24
- A No, I'm not a metallurgist. I'm a 25

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					· · · · · · · · · · · · · · · · · · ·
					4.7
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1 nraf	essional engineer.	1		through, absent, as one of the exp	perts said
	ke it you don't claim to have any	2		the other day, a train running over	r the thing?
2 Q I ta	rtise, as far as metallurgy is concerned?	3	Α	Oh, yeah, any of those collatera	l issues.
3 expe	nise, as far as metanting is concerned:	4	7 1	That's what you guys do when yo	on ect to triai.
	II, there is an overlap between the two	5		Well, I think you have an idea of	f what my
	een the two fields in this particular part			opinion is pretty good so I'm not	
6 of ei	gineering. I don't pretend to be a	6			
7 meta	llurgist, but I've used a lot of data from	7		keep beating on that. There are	some omer
8 meta	llurgists and have worked with a lot of	8		issues here that I'm going to I'm	m going to
9 then	through the years. But I'm not a	9		mention for the sake of complete	
10 meta	Illurgist and I'm not holding myself out as	10		not I'm not saying that I have	any any
	etallurgist.	11		data to suggest that this did or di	d not
	if I understand what you're saying,	12		these this list did or did not oc	cur, but I
	rdless of how strong the fit is in the	13		think it needs to be read into the	record, to
	crown assembly, it's your opinion,	14		answer your question. No. 1 is t	hat it very
15 rega	rdless of what the strength is of that	15		well may have been that the stee	r tube and the
		16		front fork may have been mis-si	zed during the
	I, that it's still at a high degree of risk	17		manufacturing process. I can't r	ule that out
17 to b	ecome separated, due to temperature	18	Q	That's a possibility but you don	
18 chai	iges and the effect of the temperature		Ų		t have uny
19 chai	nges on the steel and the aluminum because	19		facts one way or the other? Right. In all of these I'm listing	n I don't
	have dissimilar	20	A	Right. In all of these I in fishing	g i uoirt
21 A Yo	u summarized that very well. Yes.	21		have they are possibilities and	1 Have no
22 Q Is	hat your opinion?	22		facts to back them up; okay? Bu	at I think for
23 A Ye	S.	23		the sake of completeness they sh	tould be
24 Q Is	here anything else that could cause	24		listed. No. 2, there may very we	ell be in the
25 sepa	ration, other than what we've just gone	25		procedure and epoxy type of bo	nding process
	,				
1		İ			
		ļ			
					40
	48				49
		1		National Academy of Forensic E	ngineers, and
1 and	it was just missed on this front fork.			National Academy of Forensic E	ngineers, and
1 and 2 The	it was just missed on this front fork. may very well do that, they being	2		the goal of the National Academ	ngineers, and y of Forensic
1 and 2 The 3 Sun	it was just missed on this front fork. may very well do that, they being our, at their plant and they just didn't	2 3		the goal of the National Academ Engineers is to promote the ethic	ngineers, and y of Forensic al practice
1 and 2 The 3 Sun 4 do i	it was just missed on this front fork. may very well do that, they being our, at their plant and they just didn't on this one. They missed it. You may	2 3 4		the goal of the National Academ Engineers is to promote the ethic of forensic engineering. When y	ngineers, and y of Forensic al practice ou say
1 and 2 The 3 Sun 4 do i 5 have	it was just missed on this front fork. may very well do that, they being four, at their plant and they just didn't on this one. They missed it. You may a bad lot out there because of that.	2 3 4 5		the goal of the National Academ Engineers is to promote the ethic of forensic engineering. When y "ethical practice," what do you n	ngineers, and y of Forensic al practice ou say
1 and 2 The 3 Sun 4 do i 5 have 6 Alth	it was just missed on this front fork. It may very well do that, they being four, at their plant and they just didn't found this one. They missed it. You may the a bad lot out there because of that, ough I don't recommend the bonding proces	2 3 4 5 6	A	the goal of the National Academ Engineers is to promote the ethic of forensic engineering. When y "ethical practice," what do you n Well, the the Academy was for	ngineers, and y of Forensic al practice ou say nean?
1 and 2 The 3 Sun 4 do i 5 have 6 Alth 7 sucl	it was just missed on this front fork. It may very well do that, they being four, at their plant and they just didn't fon this one. They missed it. You may a bad lot out there because of that. Ough I don't recommend the bonding proces has we're dealing here, it may very well	2 3 4 5 6 7	A	the goal of the National Academ. Engineers is to promote the ethic of forensic engineering. When y "ethical practice," what do you n Well, the the Academy was fearly '80's through the National S	ngineers, and y of Forensic al practice ou say nean? ormed in the
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1 Q This is not a redundancy with the striations	guidelines for that to be together, the bond
2 in there?	2 strength, what it should have been?
3 A No.	3 A Well, what it should have been
4 Q As far as the fork crown is concerned being	4 Q Other than the redundancy that you've
5 made out of aluminum	5 mentioned?
6 A Right.	6 A Well, yeah, the bond needs to be different.
7 Q did they have striations before or were	7 Q So you're saying that that's
8 they made because of the steel?	8 A I'm not trying to confuse this issue but let's
9 A They were made because of the steel.	9 make sure we understand
10 Q Going into the fork crown?	10 Q You're saying that that's irrelevant, what the
11 A Correct.	bond strength was, because you didn't have the
12 Q Are they interlocking in nature?	12 redundancy built in?
13 A Yes.	13 A I'm saying that, but your question wasn't
14 Q As far as the length of the steel tube, was	that. Your question was what is the bond
that within industry guidelines, standards?	strength, and then 'You don't know what it
16 A I didn't measure it, but it appeared to be,	was?' I think, is what you asked me.
17 from visual inspection. I didn't consider it	17 Q Right. You don't know what it was?
18 to be an issue.	18 A Well, I know what it should be. Does that
19 Q And I asked this before, I think. You don't	help answer the question?
20 know what the amount of force would be to	20 Q Okay.
21 cause the bond to become undone between the	21 A Okay. It should be capable of withstanding at
22 steering tube and	least 1,000 pounds of static force.
23 A No.	23 Q Where do you get that from?
24 Q And you don't know what the bond strength	24 A Measurements or, excuse me, testing I've
25 would be to be sufficient under industry	done on other forks where I've applied at
1	
64	65
least that amount, or more, to them statically	CERTIFICATE 65
least that amount, or more, to them statically now not dynamically but statically and	CERTIFICATE
least that amount, or more, to them statically now not dynamically but statically and did not get failure.	
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